Texas Department of Transportation

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DALLAS DISTRICT
DESIGN SCHEMATIC

CEASON CLEMENS, P.E.,
DISTRICT ENGINEER

US 380 PRINCETON
COLLIN COUNTY, TEXAS

PROJECT LIMIT: FROM FM 1827 TO CR 560
LENGTH OF PROJECT(APPROX.)=11.7 MI (61,935.0 LF)
ROADWAY=7.7 MI (40,817.50 LF) BRIDGE=4.0 MI (21,117.50 LF)

CSJ 0135-03-056 (1.07 MI)
FROM FM 1827 TO JCT US 380/W. PRINCETON DRIVE

CSJ 0135-16-002 (6.83 MI)
FROM JCT US 380/W. PRINCETON DRIVE
TO JCT US 380/E. PRINCETON DRIVE

CSJ 0135-04-036 (3.81 MI)
FROM JCT US 380/E. PRINCETON DRIVE TO CR 560

ROADWAY TYPE	FUNCTIONAL CLASS	DESIGN SPEED
US 380 MAINLANES	URBAN FREEWAY	70 MPH
US 380 RAMPS	URBAN FREEWAY	50 MPH
US 380 FRONTAGE ROADS	URBAN COLLECTOR	45 MPH
US 380 U-TURNS	URBAN COLLECTOR	20 MPH
US 380 TRANSITION	URBAN PRINCIPAL ARTERIAL	60 MPH
E AND W PRINCETON DR	URBAN PRINCIPAL ARTERIAL	45 MPH
CR 458	URBAN PRINCIPAL ARTERIAL	40 MPH
CR 408, FUTURE PRINCETON PKWY	URBAN MAJOR COLLECTOR	40 MPH
FUTURE ROAD/TWIN GROVE PARK RD (20 MPH WITHIN PARK)	URBAN MAJOR COLLECTOR	30 MPH
CR 404	URBAN MAJOR ARTERIAL	40 MPH
FM 75, FM 1377	URBAN MAJOR ARTERIAL	45 MPH
CR 559	URBAN MAJOR ARTERIAL	30 MPH
CR 330E, CR 337, CR 406, CR 463, CR 492, CR 985, CR 557	URBAN LOCAL	30 MPH
PROPOSED LOCAL ROAD, McKISSICK DR, BIGGS RD, COLLEGE ST, CADDO PARK RD	URBAN LOCAL	30 MPH
CR 1084, CR 407, ISLAND WAY, CALMWATER COVE	URBAN LOCAL	25 MPH
CR 330W	URBAN LOCAL	20 MPH

NOTE: DESIGN SPEEDS APPLY UNLESS OTHERWISE NOTED ON SCHEMATIC.

TRAFFIC DATA

ADT (2030) = 78,125 % TRUCKS:ADT = 4.2
ADT (2050) = 119,650 DHV = 3.4
ADT (2060) = 134,675 K = 8.9
DD = 58

SOURCE: TxDOT TRANSPORTATION PROGRAMMING AND PLANNING DIVISION
MEMO DATED: AUGUST 31, 2020

SCALE: 1"=200' H, 1"=20' V DECEMBER 2023

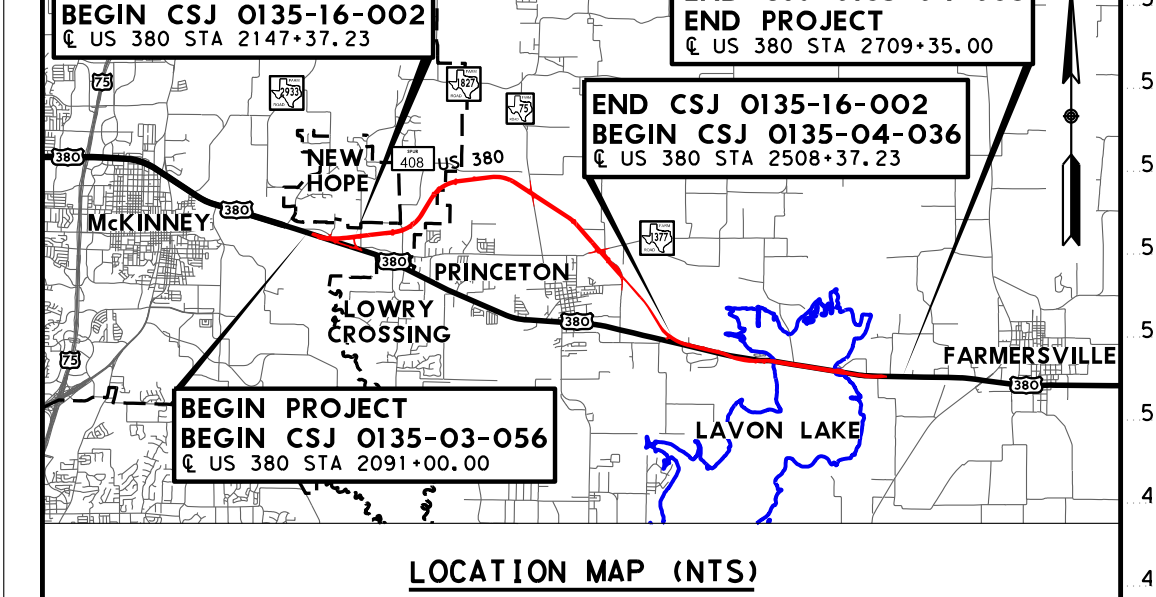
DISTRICT: DALLAS
COUNTY: COLLIN
DATE: DECEMBER 2023

LEGEND:

- PROPOSED PROFILE
- CONSTRUCTION BY OTHERS
- EXISTING GROUND
- SPLINE GRADE
- ▭ BRIDGE COLUMN
- ▬ PROPOSED BRIDGE
- ▨ EXISTING BRIDGE TO REMAIN

US 380 PRINCETON
100% DESIGN SCHEMATIC

ROLL 7 OF 13



END CSJ 0135-03-056
BEGIN CSJ 0135-16-002
℄ US 380 STA 2147+37.23
END CSJ 0135-04-036
END PROJECT
℄ US 380 STA 2709+35.00
END CSJ 0135-16-002
BEGIN CSJ 0135-04-036
℄ US 380 STA 2508+37.23
BEGIN PROJECT
BEGIN CSJ 0135-03-056
℄ US 380 STA 2091+00.00
McKINNEY
NEW HOPE
PRINCETON
LOWRY CROSSING
FARMERSVILLE
LAVON LAKE
N

LOCATION MAP (NTS)

PREPARED BY AECOM TECHNICAL SERVICES, INC. TBPE NUMBER F-3580; FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.

Prepared by or under the Direct Supervision of:

BRAD M. HERNANDEZ 100079 JEFF S. PUSKOS, JR. 97526

AECOM
13355 NOEL ROAD
SUITE 400
DALLAS, TEXAS 75240
214-741-7777

TXDOT DALLAS DISTRICT
DESIGN SCHEMATIC APPROVED
DATE: 12-10-2023

EAST BOUND FRONTAGE ROAD(EBFR1)

BEGIN PROFILE STA 4122+18.48 EL=572.20'
STA 4125+50.00 EL = 569.54' ex = -1' K = 79 L = 250'
PROPOSED CULVERT D STA 4122+42.99 1-3'X2' SBC ℄ = 566.39'
WSEL_10YR=567.14'
WSEL_100YR=567.20'
℄ PRLOCALROAD
BEGIN BRIDGE STA 4135+38.40
END BRIDGE STA 4146+08.35
STA 4135+00.00 EL = 532.00' ex = 3.45' K = 139 L = 620.00'
WSEL_50YR=525.96'
WSEL_100YR=526.43'
104' 123' 123' 120' 120' 120' 120' 120' 120'
1070.00'
TX54 66" ASSUMED DEPTH OF SUPERSTRUCTURE
℄ BUS380T
EXISTING GROUND AT ℄ EBFR1
STA 4152+00.00 EL = 540.50' ex = 3.09' K = 122 L = 550.00'
℄ PROCR337
STA 4165+25.00 EL = 606.75' ex = -3' K = 78 L = 450'
STA 4171+25.00 EL = 601.95' ex = 0' K = 84 L = 175'
STA 4174+00.00 EL = 605.50' ex = -1' K = 65 L = 200'
STA 4176+50.00 EL = 601.00' ex = 1' K = 87 L = 225'
STA 4178+75.00 EL = 602.75' ex = 0' K = 381 L = 150'
STA 4180+50.00 EL = 604.80' ex = -0' K = 88 L = 150'
PROPOSED CULVERT F STA 4174+15.15 2-5'X2' MBC ℄ = 599.69'
PROPOSED CULVERT J STA 4180+68.00 2-4'X2' MBC ℄ = 599.19'
WSEL_100YR=600.91'
WSEL_10YR=600.66'
WSEL_10YR=602.28'
WSEL_100YR=603.79'
℄ PROCR404
STA 4184+50.00 EL = 602.70' ex = 2' K = 96 L = 350'
STA 4190+50.00 EL = 621.50' ex = -1' K = 69 L = 250'
℄ PROCR406
STA 4194+75.00 EL = 619.38' ex = -0' K = 69 L = 150'
STA 4196+75.00 EL = 614.00' ex = 1' K = 99 L = 200'
STA 4199+00.00 EL = 612.50' ex = 0' K = 129 L = 150'
STA 4201+50.00 EL = 613.75' ex = -0' K = 150 L = 150'
STA 4203+50.00 EL = 612.75' ex = 0' K = 85 L = 150'
PROPOSED CULVERT K STA 4201+03.18 2-5'X2' MBC ℄ = 608.88'
WSEL_10YR=611.30'
WSEL_100YR=611.52'
STA 4214+00.00 EL = 626.00' ex = -1' K = 142 L = 250'
PROPOSED GROUND AT ℄ EBFR1
STA 4232+00.00 EL = 617.00' ex = 0' K = 150 L = 150'
WSEL_10YR=617.12'
WSEL_100YR=617.80'
PROPOSED CULVERT L STA 4237+22.98 4-6'X2' MBC ℄ = 613.67'
STA 4240+00.00 EL = 621.00' ex = -0' K = 150 L = 150'
PROPOSED CULVERT M STA 4241+71.47 1-6'X2' SBC ℄ = 614.73'
WSEL_10YR=618.98'
WSEL_100YR=620.14'
STA 4246+00.00 EL = 618.00' ex = 1' K = 151 L = 350'
STA 4252+75.00 EL = 630.27' ex = -1' K = 86 L = 200'
℄ PROPKWY
STA 4264+00.00 EL = 624.65' ex = -1' K = 99 L = 200'
STA 4273+50.00 EL = 600.77' ex = 2' K = 100 L = 400'
STA 4277+50.00 EL = 606.77' ex = -0' K = 150 L = 150'
STA 4281+75.00 EL = 608.90' ex = -1' K = 98 L = 250'
WSE_50YR=595.19'
WSE_100YR=595.32'
135.15' 105' 105' 105' 105'
555'
TX54 66" ASSUMED DEPTH OF SUPERSTRUCTURE
STA 4288+50.00 EL = 595.00' ex = 0' K = 100 L = 150'
STA 4296+50.00 EL = 590.50' ex = 1' K = 95 L = 200'
STA 4302+00.00 EL = 599.00' ex = -1' K = 129 L = 300'
WSEL_100YR=585.75'
WSEL_50YR=585.57'
114' 114' 114' 114' 114' 114' 114'
798'
TX54 66" ASSUMED DEPTH OF SUPERSTRUCTURE
MATCH LINE STA 4318+00.00
PROPOSED ELEVATION
EXISTING ELEVATION

TXDOT DALLAS DISTRICT
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EAST BOUND FRONTAGE ROAD(EBFR1)

MATCH LINE STA 4318+00.00
STA 4320+00.00 EL = 584.96' ex = 0' K = 117 L = 150'
WSEL_50YR=578.27'
WSEL_100YR=578.65'
STA 4326+00.00 EL = 587.96' ex = -0' K = 150 L = 150'
123' 123' 135' 123' 123' 123' 100' 100'
950'
TX54 66" ASSUMED DEPTH OF SUPERSTRUCTURE
℄ PROFM75
STA 4333+00.00 EL = 584.46' ex = 1' K = 141 L = 300'
STA 4339+50.00 EL = 595.00' ex = -1' K = 141 L = 300'
STA 4346+50.00 EL = 591.50' ex = 0' K = 131 L = 200'
STA 4354+00.00 EL = 599.20' ex = -2' K = 133 L = 400'
STA 4360+50.00 EL = 586.30' ex = 0' K = 171 L = 200'
PROPOSED GROUND AT ℄ EBFR1
STA 4368+25.00 EL = 580.00' ex = -0' K = 103 L = 150'
STA 4371+25.00 EL = 573.20' ex = 1' K = 84 L = 250'
PROPOSED CULVERT O STA 4373+72.17 2-7'X3' MBC ℄ = 562.80'
EXISTING GROUND AT ℄ EBFR1
WSEL_10YR=568.89'
WSEL_100YR=569.97'
STA 4382+00.00 EL = 581.00' ex = -1' K = 149 L = 300'
PROPOSED CULVERT P STA 4390+35.64 1-5'X2' SCB ℄ = 560.30'
WSEL_10YR=567.91'
WSEL_100YR=568.87'
STA 4399+00.00 EL = 559.00' ex = -1' K = 149 L = 300'
EXISTING 20" GAS LINE ELEVATION UNKNOWN
℄ PROFM1377
STA 4404+50.00 EL = 540.80' ex = 1' K = 108 L = 300'
WSEL_50YR=530.68'
WSEL_100YR=531.09'
PROPOSED CULVERT UNT-2 STA 4410+50.00 4-8'X5' MBC ℄ = 526.20'
STA 4412+00.00 EL = 536.90' ex = 1' K = 87 L = 250'
STA 4415+00.00 EL = 544.00' ex = -1' K = 78 L = 250'
WSEL_10YR=526.35'
WSEL_100YR=529.72'
PROPOSED CULVERT UNT-3 STA 4419+90.00 1-7'X4' SBC ℄ = 523.53'
STA 4421+00.00 EL = 539.00' ex = 2' K = 87 L = 400'
STA 4425+50.00 EL = 556.00' ex = -5' K = 64 L = 480'
STA 4431+50.00 EL = 533.50' ex = 2' K = 80 L = 350'
BEGIN BRIDGE STA 4432+09.50
END BRIDGE STA 4435+39.50
WSEL_50YR=516.01'
WSEL_100YR=516.02'
℄ SISTER GROVE CREEK UNNAMED TRIB
105' 120' 105'
330'
TX54 66" ASSUMED DEPTH OF SUPERSTRUCTURE
STA 4435+50.00 EL = 536.00' ex = 1' K = 96 L = 300'
EXISTING 6" GAS LINE ELEVATION UNKNOWN
STA 4439+50.00 EL = 551.00' SSD = 369' ex = -2.43' K = 63 L = 350.00'
STA 4443+00.00 EL = 544.70' ex = 1.14' K = 80 L = 270.00'
PROPOSED CROSS DRAIN STA 4442+69.50 1-24" RCP ℄ = 540.70'
WSEL_100YR=542.70'
WSEL_50YR=542.60'
℄ PROCR458 EL=547.50'
PROPOSED GRADE AT ℄ PROCR458
END PROFILE STA 4444+35.73 EL=546.82'
PROPOSED ELEVATION
EXISTING ELEVATION

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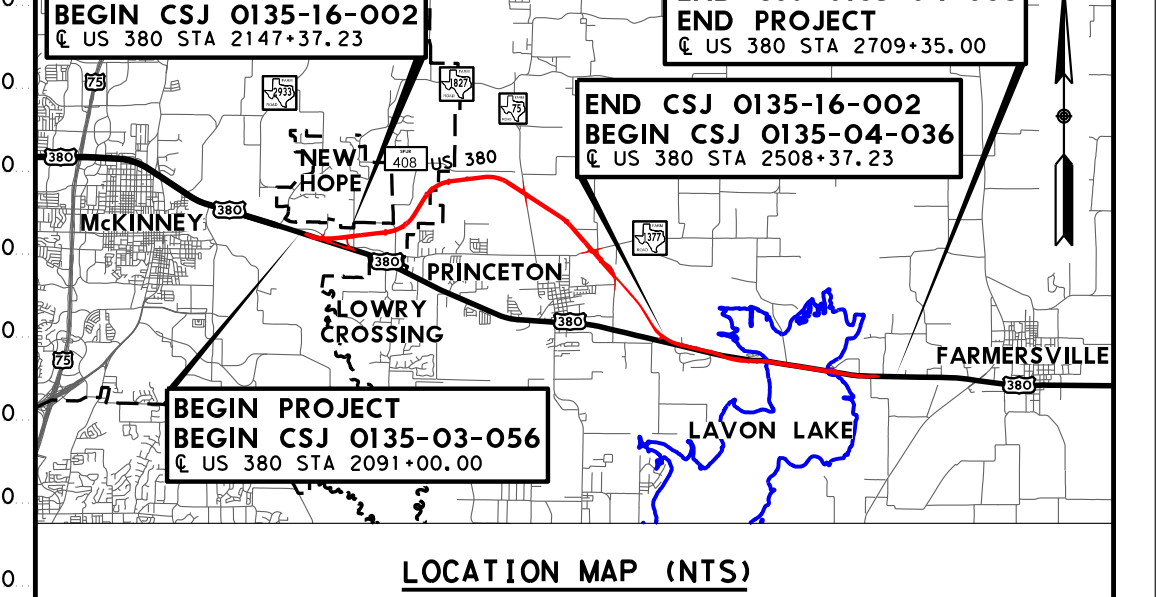
ROLL 7 OF 13



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